PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF GEORGE CLAUSS BLVD. AND QUARTERFIELD PARK ROAD IN ANNE ARUNDEL COUNTY. GEORGE CLAUSS BLVD. IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND GEORGE CLAUSS BLVD, SIDE STREET SPLIT PHASING AND AN EASTBOUND RIGHT TURN OVERLAP PHASE. VIDEO DETECTION WILL BE USED.

THIS INTERSECTION WILL BE INTERCONNECTED TO THE INTERSECTION OF MD 174 AND THE I-97 SOUTHBOUND

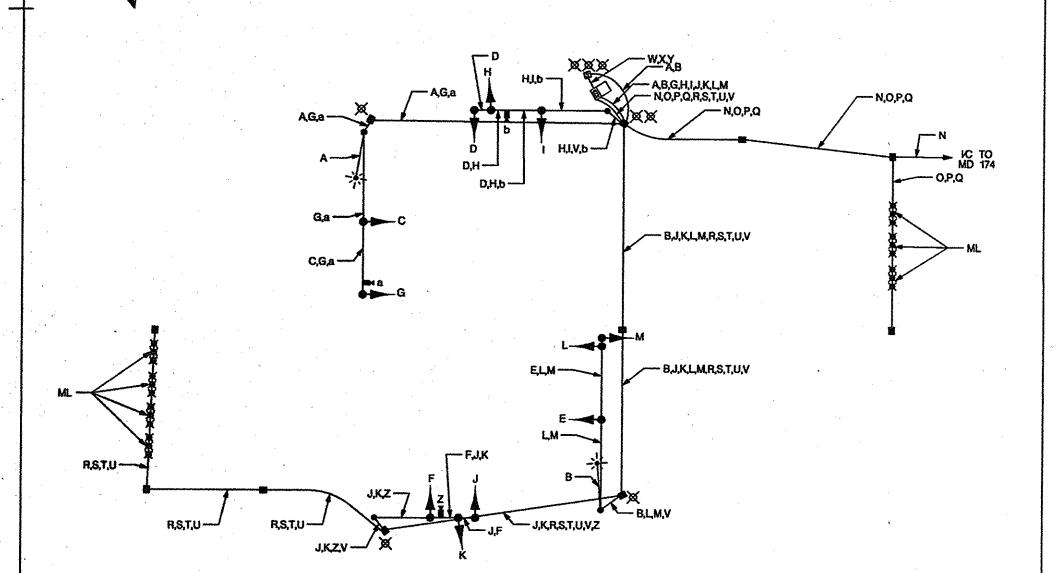
CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE AND TWO (2), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A NEMA "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT 410-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

WIRING DIAGRAM



WIRING KEY

A-B	2-CONDUCTOR ELECTRICAL CABLE
	(NO. 12 A.W.G.)
C-F	5-CONDUCTOR ELECTRICAL CABLE
	(NO. 14 A.W.G.)
G-M	7-CONDUCTOR ELECTRICAL CABLE
	(NO. 14 A.W.G.)
N	12-PAIR VOICE GRADE INTERCONNE
	CARLE CARLE

CABLE CABLE
MICRO-LOOP PROBE LEAD-IN
STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) 1-CONDUCTOR ELECTRICAL CABLE

(NO. 4 A.W.G.)
VIDEO DETECTION CABLE
MICRO-LOOP PROBE GROUND ROD

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

DESCRIPTION

ITEM NO. **QUANTITY**

NONE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION	
LS	MAINTENANCE OF TRAFFIC	
5 CY	TEST PIT EXCAVATION	
220 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING	
2 EA	FURNISH AND INSTALL 250 FT. VIDEO DETECTION CABLE	
1 EA	FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE	
3 EA	CUT, CLEAN, AND CAP TRAFFIC SIGNAL STRUCTURE	
34 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION	
2 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM	
2 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE	
9 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION	
1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT	4
2 EA	FURNISH AND INSTALL 50 FT.MAST ARM AND POLE	
2 EA	FURNISH AND INSTALL 70 FT.MAST ARM AND POLE	
4 EA	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN	
3 EA	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN	
3 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA	
1 EA	FURNISH AND INSTALL VIDEO INTERFACE EQUIPMENT	
210 LF	FURNISH AND INSTALL 3 IN SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED	
150 LF	FURNISH AND INSTALL 3 IN SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED	
230 LF	FURNISH AND INSTALL 4 IN SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED	
380 LF	FURNISH AND INSTALL 4 IN SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED	
18 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION	
420 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE	
1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL	
50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 A.W.G.)	
11 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE	
280 LF	FURNISH AND INSTALL 12-PAIR COMMUNICATION CABLE - UNDERGROUND	
8 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH	٠.
100 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)	
1400 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)	
380 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.) - TRAY CABLE	
1 EA	FURNISH AND INSTALL BASE MOUNTED CABINET AND CONTROLLER	
2 EA	FURNISH AND INSTALL 4-CHANNEL TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER	
4 EA	FURNISH AND INSTALL D3-2 DUAL FACE SIGN (VAR. X 16") - MAST ARM MOUNT	
1 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") - MAST ARM MOUNT	
1 EA	FURNISH AND INSTALL R3-5(R) SIGN (30" X 36") - MAST ARM MOUNT	

EQUIPMENT LIST "C"

C. EX TING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY AD INISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY TH SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO. QUANTITY **DESCRIPTION**

NONE

LL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL ECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MR. CHARLES GEORGE

ASSISTANT DISTRICT ENGINEER - TRAFFIC (4 841–1003

ASSISTANT DISTRICT ENGINEER - MAINTENANCE

TEAM LEADER SIGN OPERATIONS

(410) 841-1002

M JOHN MAYS

AS STANT DISTRICT ENGINEER - UTILITIES

(4 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY ME RICHARD DAFF, SR. MR. EUGENE BAILEY

CI F, TRAFFIC OPERATIONS

(4 787–7630

MI ROBERT SNYDER

AS STANT DIVISION CHIEF. TF FIC OPERATIONS

(4 787-7631

MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE

(410) 787-7668

(410) 787-7676

MI ED RODENHIZER

TE 14 LEADER SIGNAL OPERATIONS (4* 787–7652

1 RE LINE 3/22/07 M. Ruffer 3-27-07
Cc ∋cted signal head numbering and phase chart

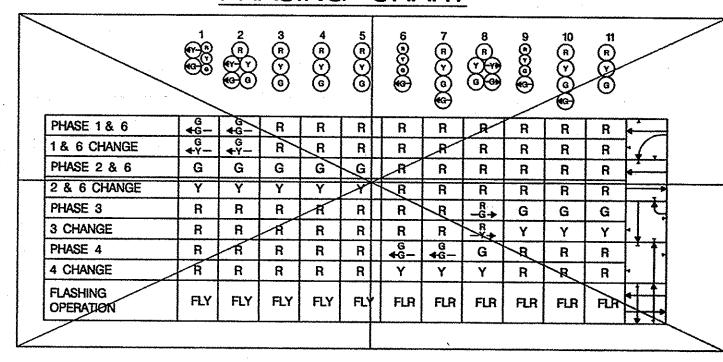
325 Gambrills Road

Suite E

Gambrills, MD 21054

(410) 923-7101 FAX (410) 923-6473 EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

PHASING CHART



PHASE 1 & 6	G ◆G−	G 4 G−-	G	R	R	R	R	R	R	R	R	4	
1 & 6 CHANGE	G ◆Y—	G ◆Y-	G	R	R	R	R	R	R	R	R	<i>¹∠</i>	_
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	R	-	E
2 & 6 CHANGE	Υ	. Y	Υ	Υ	Υ	R	R	R	R	R	R	├—	 3
PHASE 3	R	R	R -G→	R	R	R	R	R	G ◆G—	G 4-G	G	\prod	t
3 CHANGE	R	R	R −Y→	R	R	R	R	R	Υ	Y	Υ	ŀŢ	_ `
PHASE 4	R	R	R	R	R	G ◆ G	G -	G	R	R	R	-	Ť.
4 CHANGE	R	R	R	R	R	Υ	Y	Υ	R	R	R	}	
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	1	Į,

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN GEORGE CLAUSS BLVD. AND

QUARTERFIELD PARK ROAD

DESIGNED BY	T. ZAYDEL	_ COUNTY _	ANNE	ARUNDEL
DRAWN BY	T. ZAYDEL	LOGMILE _		
CHECKED BY	K. SCHMID	T.I.M.S. NO.		
F.A.P. NO	N/A	TOD NO		